PATENT COOPERATION TRE

PCT

REC'D 0 2 NOV 2004

WIPO

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applican	t's or agent's file reference	 					
Applicant's or agent's file reference PF020122 International application No. PCT/EP 03/50653		FOR FURTHE	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
		International filing 24.09.2003		th/year)	Priority date (day/month/year) 25.09.2002		
Internation H04L1	onal Patent Classification (IPC 2/26	or both national classifica	ation and IPC				
Applicant THOMS	s SON LICENSING S.A. e	al.			·		
1. Th	ls international preliminary thority and is transmitted to	examination report has the applicant accordin	been prepar g to Article 30	ed by this Ir 3.	nternational Preliminary Examining		
2. Th	is REPORT consists of a to	tal of 6 sheets, includi	ng this cover	sheet.			
	This report is also accor been amended and are (see Rule 70.16 and Se	npanied by ANNEXES, the basis for this report	i.e. sheets of and/or sheets	f the descrips containing	otion, claims and/or drawings which have prectifications made before this Authority		
The	ese annexes consist of a to		ondavo mond	ctions ande	r the PC1).		
_							
3. Thi	s report contains indication	s relating to the following	ng items:		•		
1	Basis of the opinion	1					
H	☐ Priority				•		
111	☐ Non-establishment	of opinion with regard t	to novelty, inv	entive step	and industrial applicability		
IV	Lack of unity of invi	ention					
V	Reasoned stateme citations and explain	nt under Rule 66.2(a)(ii nations supporting such) with regard statement	to novelty, i	nventive step or industrial applicability;		
VI	Certain documents	cited					
VII		ne international applicat	tion				
VIII	☐ Certain observation	s on the international a	pplication				
Onto of and							
ale of Sub	mission of the demand		Date of co	empletion of t	hls report		
3.04.2004			29.10.20	29.10.2004			
lame and i reliminary	ame and mailing address of the international reliminary examining authority:			Authorized Officer			
	European Patent Office - P. NL-2280 HV Rijswijk - Pays Tel. +31 70 340 - 2040 Tx:	Bas	Poppe, I	F	i seemand.		
<u> </u>	Fax: +31 70 340 - 3016	oot aho ui		No. +31 70	340-4378		
			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/50653

 With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	De	escription, Pages					
	1-5	5	as originally filed				
	Cla	aims, Numbers					
	1-1	10	as originally filed				
	Dra	awings, Sheets					
	1/3	-3/3	as originally filed				
2.	Wit lan	th regard to the lang guage in which the ir	uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.				
			vailable or furnished to this Authority in the following language: , which is:				
		the language of a ti	ranslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of put	plication of the international application (under Rule 48.3(b)).				
		the language of a tr Rule 55.2 and/or 55	anslation furnished for the purposes of interpolicies and preliminations of the purposes of the purpose of the purpo				
3.	Wit inte	h regard to any nucl rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:				
			ernational application in written form.				
			ne international application in computer readable form.				
		furnished subseque	ntly to this Authority in written form.				
		The statement that t	the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.				
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.				
ŀ.	The	amendments have r	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				



International application No.

PCT/EP 03/50653

5. 🗆	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-10

No: Claims

Inventive step (IS)

Yes: Claims

No: Claims

1-10

Industrial applicability (IA)

Yes: Claims

1-10

No: Claims

2. Citations and explanations

see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The examination is being carried out on the following application documents:

Description, pages:

1-5

as originally filed

Claims, No.:

1-10

as originally filed

Drawings, sheets:

1/3-3/3

as originally filed

The following documents are referred to in this communication; the numbering will be adhered to in the rest of the procedure:

D1: US-B-6181681

D2: US-A-20010055274

- 1. The present application does not meet the requirements of Article 6 PCT, because claims 1, 6 and 10 are not clear and concise.
- 1.1. There is no support in the description for present claim 1. According to the description, page 4, lines 6-26, and figure 3, it is first checked whether the frame contains a multicast group management message and only then the - potentially modified - frame is delivered to an internal bridge module. This means that there is no support for step (b) of the method of claim 1.
- 1.2. Claim 6 includes all the features of claim 10. Hence, claim 6 should be reformulated as a claim dependent on claim 10.

- 2. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1, 6 and 10 does not involve an inventive step in the sense of Article 33(3) PCT.
- 2.1. The document D1 discloses (the references in parentheses applying to this document):

a method for routing data packets in a routing device, comprising the steps of:

- (a) receiving a frame from a device (col. 2, I. 55-58);
- (b) checking whether the frame contains a multicast group management message (IGMP packet) and in the affirmative, forwarding the frame to an internal multicast group management module (microprocessor) (col. 7, I. 8-13), and in the negative, forwarding the frame to an internal bridge module;

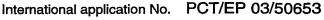
from which the subject-matter of claim 1 differs in that the forwarding of the multicast group management frame to the internal multicast group management module takes place by creating a new frame comprising as destination address the address of an internal multicast group management module and as payload at least the multicast management data of the received frame, and forwarding this new frame to the internal bridge module.

The problem to be solved by the present invention may therefore be regarded as how to forward a multicast group management message to an internal multicast group management module via an internal bridge module (as mentioned by the applicant on page 2, line 5-11).

The above-mentioned solution proposed in claim 1 of the present application cannot be considered as involving an inventive step, since it can be considered as a matter of normal design to the skilled person to create a new frame, based on an initial frame, with as destination address the address of an internal module (see for example document D2 (claim 22: "copy (...) to said mirror port")).

2.2. Following a reasoning corresponding to the one given regarding the subject-matter of method claim 1, the subject-matter of corresponding routing device claim 6 and switch circuit claim 10 of the present application cannot be considered as involving an inventive step.





EXAMINATION REPORT - SEPARATE SHEET

- 3. Dependent claims 2-5 and 7-9 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step, the reasons being as follows.
- 3.1. Referring to claims 2 and 7, the first network being an Ethernet network, and the steps of the method being executed by an Ethernet switch is known from D1 (col. 8, I. 18-20).
- 3.2. Referring to claims 3 and 8, the insertion of a port identifier into a frame is a slight constructional detail which comes within the scope of the customary practice followed by persons skilled in the art, especially as the advantages thus achieved can be readily contemplated in advance.
- 3.3. Referring to claims 4 and 9, the multicast group management message being an IGMP message is known from D1 (col. 7, l. 8).
- 3.4. Referring to claim 5, the multicast group management module updating its multicast group information upon reception of a new frame is known from D1 (col. 7, l. 15-17).
- 4. Furthermore the following is noted:
- 4.1. The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).
- 4.2. Independent claims are not in the two-part form vis-à-vis the closest prior art D1 in accordance with Rule 6.3(b) PCT.